p53 (human), (recombinant) (GST-tag)

p53 is a much studied and complex multifunctional protein, which acts as a tumor suppressor in many tumor types and induces growth arrest or apoptosis depending on the physiological circumstances and cell type. It is involved in cell cycle regulation as a trans-activator that acts to negatively regulate cell division by controlling a set of genes required for this process. One of the activated genes is an inhibitor of cyclin-dependent kinases. Apoptosis induction appears to be mediated either by stimulation of BAX and FAS antigen expression, or by repression of Bcl-2 expression. The p53 pathway responds to stresses that can disrupt the fidelity of DNA replication and cell division. A stress signal is transmitted to the p53 protein by post-translational modifications. Such modification results in the activation of p53 protein as a transcription factor that initiates a program of cell cycle arrest, cellular senescence or apoptosis.

Citations: 4 View Online »

Ordering Information

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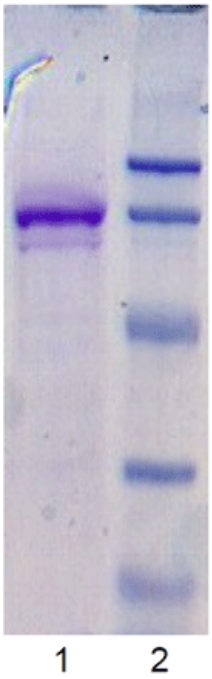
BML-FW9370-0050	50µg

Manuals, SDS & CofA

View Online »

Western blot of prod. no. BML-FW9370 after SDS-PAGE followed by blotting onto PVDF and probing with mouse monoclonal antibody to p53 (Cat. #BML-SA293, 1:5000).



Coomassie stained gel of prod.no. BML-FW9370: Lane 1: FW9370 (3µg), Lane 2: MW markers (top to bottom) 113, 93, 50, 35, and 28 kDa.

Handling & Storage

Long Term Storage	-80°C
Shipping	Dry Ice

Regulatory Status RUO - Research Use Only

Product Details

Alternative Name	TRP53, Tumor protein p53
Formulation	Liquid. In 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 0.25 mM DTT, 0.1 mM EGTA, 0.1 mM EDTA, 0.1 mM PMSF, 25% glycerol.
MW	~70kDa (~85/90kDa observed with GST tag)
Purity	≥90% (SDS-PAGE)
Source	Produced in *E. coli*. Full length human p53 is fused to a GST-tag.
UniProt ID	P04637

Last modified: September 18, 2025

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